## Claims

5'-phosphate having nucleoside removable blocking moiety protecting the 3' position which is a hydrocarbyl wherein said removable blocking moiety is linked 3' carbon of said nucleoside the triphosphate.

nucleoside 5'-phosphate having removable blocking moiety protecting the 3' position which is selected from the group consisting of esters, ethers, carbonitriles, phosphates, carbonates, borates, nitrates, sugars, phosphoramidates, phenylsufenates, sulfates, sulfones, wherein said removable blocking moiety is linked to the 3' carbon of said nucleoside 5'-triphosphate.

nucleoside 5'-phosphate having removable blocking moiety protecting the 3' position which is selected from the group consisting of esters, ethers and phosphates, wherein said removable blocking moiety is linked to the 3 ' carbon of said nucleoside 5'triphosphate.

- A nucleoside of 5'-phosphate of claims 1-3 wherein said nucleoside contains a base selected from the group consisting of adenine ig(A) , guanine (G), thymine (T), cytosine (C) and uracil (U).
- A nucleoside \( \frac{1}{2} \)'-phosphate of claims 1-4 wherein said nucleoside 5'-phosphate is a nucleoside 5'triphosphate.
  - A nucleoside 5'-phosphate of claims 1-5

wherein said removable blocking moiety is enzymatically removable.

- 7. A nucleoside 5'-phosphate of claim 6 wherein said removable blocking moiety is removed in under 10 minutes.
- 8. A nucleoside 5'-phosphate of claims 1-7 wherein said removable blocking moiety is linked to a solid support.

add G